Patent 10/763.542

LISTING OF CLAIMS

- 1. (Currently Amended) An endovascular heat transfer device, comprising: a working fluid supply, including a gear pump;
- a flexible catheter capable of insertion to a selected vessel in the vascular system of a patient;

a heat transfer element attached to a distal end of said catheter, said heat transfer element comprising a plurality of heat transfer segments, each said heat transfer segment being encompassed by a smooth surface:

a smooth flexible tube connecting at least some of said heat transfer segments to adjacent said heat transfer segments; and

an inner tube disposed within said heat transfer element, said inner tube being connected in fluid flow communication with said gear pump.

- 2. (Original) The device recited in claim 1, wherein said gear pump is a helical tooth gear pump.
 - 3. (Original) A heat transfer device, comprising:
 - a flexible catheter capable of insertion to a vessel in the vascular system of a patient;
 - a plurality of heat transfer segments attached to a distal end of said catheter;
- a flexible joint connecting each of said heat transfer segments to adjacent said heat transfer segments; and
- a smooth flexible tube connecting at least some of said heat transfer segments to adjacent said heat transfer segments.

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4. (Currently Amended) An endovascular heat transfer device, comprising: a flexible catheter capable of insertion to a selected vessel in the vascular system of a patient;

a heat transfer element attached to a distal end of said catheter, said heat transfer element comprising a plurality of heat transfer segments, each said heat transfer segment being encompassed by a smooth surface;

a smooth flexible tube connecting at least some of said heat transfer segments to adjacent said heat transfer segments; and

an inner tube disposed within said heat transfer element, said inner tube being adapted to supply heat transfer fluid to the interior of said heat transfer element.